

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000983

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D217/26 A61K31/47 A61K31/33 C07C211/52 C07C265/12
C07C211/45 A61P35/00 A61P31/16 A61P19/00 A61P9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K C07C A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/097586 A (JANSSEN PHARMACEUTICA N.V.; CODD, ELLEN; DAX, SCOTT, L; JETTER, MICHELE) 27 November 2003 (2003-11-27) see pag 77, formula (IXe); page 78, formula (IXg) and (IXh); example 4; claims 1-89, 99	1-3,5, 9-13, 15-21
A	----- PING CHEN ET AL.: "Identification of novel and potent isoquinoline aminooxazole-based IMPDH inhibitors" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol. 13, no. 7, 2003, pages 1345-1348, XP002329515 GBOXFORD page 1345; figure 2; table 2 ----- -/--	1-3,5, 9-13, 15-21

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

25 May 2005

Date of mailing of the international search report

16. 08. 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rufet, J

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000983

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 256 574 A (KIRIN BEER KABUSHIKI KAISHA) 13 November 2002 (2002-11-13) page 124 - page 159; claims 1,4-6,32-34 -----	1-3, 5-13, 15-22
A	WO 93/18028 A (SMITHKLINE BEECHAM PLC) 16 September 1993 (1993-09-16) page 1, line 11 - line 18; claims 1-9 -----	1,20
A	WO 02/085857 A (BAYER CORPORATION; DUMAS, JACQUES; RIEDL, BERND; KHIRE, UDAY; SIBLEY,) 31 October 2002 (2002-10-31) abstract; claims 24-27 -----	1,6-16, 19
A	WO 02/085859 A (BAYER CORPORATION; DUMAS, JACQUES; RIEDL, BERND; KHIRE, UDAY; SIBLEY,) 31 October 2002 (2002-10-31) abstract; claims 1,26-39 -----	1,6-16, 19

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2005/000983

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 24-27
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 24-27 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-27

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-27

Provision of compounds useful for the treatment of hyperproliferative disorders like cancer, leukemia and other nonhyperproliferative like rheumatoid arthritis, inflammation, asthma, inflammatory bowel disease, autoimmune disease, chronic obstructive pulmonary disease etc.

2. claims: 28-31

Alternative processes for the preparation of isoquinoline derivatives and intermediates of formula (III) and (IIIa)

3. claim: 32

Intermediate compounds of formula (IV)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000983

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03097586	A	27-11-2003	AU 2003241453 A1	02-12-2003
			CA 2486092 A1	27-11-2003
			EP 1506166 A1	16-02-2005
			WO 03097586 A1	27-11-2003
			US 2003236280 A1	25-12-2003

EP 1256574	A	13-11-2002	AU 3056401 A	14-08-2001
			EP 1256574 A1	13-11-2002
			US 2004102437 A1	27-05-2004
			WO 0156988 A1	09-08-2001

WO 9318028	A	16-09-1993	AU 3641193 A	05-10-1993
			EP 0630373 A1	28-12-1994
			WO 9318028 A1	16-09-1993
			JP 7504429 T	18-05-1995
			MX 9301336 A1	01-10-1993
			US 5508288 A	16-04-1996
			ZA 9301713 A	22-09-1994

WO 02085857	A	31-10-2002	CA 2443950 A1	31-10-2002
			EP 1379505 A2	14-01-2004
			JP 2005501813 T	20-01-2005
			WO 02085857 A2	31-10-2002
			US 2003207914 A1	06-11-2003

WO 02085859	A	31-10-2002	US 2002065296 A1	30-05-2002
			CA 2443952 A1	31-10-2002
			EP 1379507 A1	14-01-2004
			JP 2004537511 T	16-12-2004
			WO 02085859 A1	31-10-2002
